

L-P ORIENTED STRAND BOARD (OSB) PRODUCTS

SECTION I - General Information

Manufacturer's
Name Louisiana-Pacific Corporation
Address 111 SW Fifth Avenue
Portland, Oregon 97204

Emergency
Telephone Number (503) 221-0800

Preparation/
Revision Date April 1996

SECTION II - Hazardous Ingredients

Chemical Name	Common Name	CAS No	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL TWA	OSHA PEL STEL
Wood Dust	Wood Dust	N/A	5 mg/m ³ **	10 mg/m ³	5 mg/m ³	10 mg/m ³
Resin Solids as PNOC	Resin Solids	N/A	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)	--	15 mg/m ³ (inhalable) 5 mg/m ³ (respirable)	--
Zinc Borate as PNOC*	Zinc Borate	138265-88-0	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)	--	15 mg/m ³ (total) 5 mg/m ³ (respirable)	--
Formaldehyde	Formaldehyde	50-00-0	0.3 ppm (ceiling)	--	0.75 ppm	2.0 ppm

* ONLY L-P SIDING OSB MATERIALS (e.g. panel siding, lap siding, and soffits) CONTAIN ZINC BORATE, NO OTHER OSB PRODUCTS CONTAIN THIS MATERIAL

** For OSB products composed of hard woods (e.g. beech, aspen, and oak) the TWA is 1 mg/m³

SECTION III - Physical and Chemical Characteristics

Composition: OSB products are a cured composite of wood strands bound together using resins. These products may contain more than 1% methylene diphenyl diisocyanate (MDI) as resins. However, chamber tests conducted on commercial OSB boards did not detect airborne levels of MDI, indicating that no MDI off gassing occurs above the method detection limit of 20 parts per trillion (ppt).

Appearance: Light brown wood panels

Odor: Slight to none

pH: N/A

Bulk Density: 34-44 PCF

Melting Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Solubility: N/A

SECTION IV - Fire and Explosion Hazard Data

Flammability Characteristics: OSB products may ignite if exposed to temperatures exceeding 400°F. These products are combustible and may burn if exposed to open flames, high temperature objects, or oxidizing chemicals.

Explosion Hazards: Airborne concentrations of finely divided wood and resin dust, when combined with an ignition source, can create a fire or explosion hazard if the concentration of wood dust exceeds 40 g/m³.

Flash Point: N/A

Extinguishing Media: Normal firefighting methods appropriate for surrounding fire, such as water or CO₂ extinguishment, may be used in case of fire.

Special Fire Fighting Procedures: Firefighters should wear self-contained breathing equipment and full protective clothing.

SECTION V - Reactivity Data

Stability: These products are stable under normal conditions.

Incompatibilities: Oxidizers

Hazardous Decomposition or Byproducts: Toxic constituents which may be found in wood smoke include carbon monoxide, aldehydes, and polycyclic aromatic hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION VI - Health Hazards

Route(s) of Entry: Inhalation

Health Hazards: Chronic exposure to wood dust in OSB products may cause dermatitis, respiratory irritation and increased risk of upper respiratory tract disease. Susceptible individuals may experience watery eyes and rhinorrhea (runny nose). Zinc borate dusts may cause respiratory irritation at concentrations greater than 10 mg/m³. Polymerized diisocyanate containing resins in OSB panel dust may irritate the eyes, skin, throat and upper respiratory system. Low concentrations (less than 0.05 ppm) of formaldehyde off gassing from OSB panels may also irritate the eyes and respiratory system.



Carcinogenicity: Wood dust has been classified by the International Agency for Research on Cancer (IARC) as carcinogenic to humans in furniture and cabinet-making, and possibly carcinogenic to humans in carpentry and joinery operations. Formaldehyde has been classified by the IARC, the National Toxicology Program (NTP), and the ACGIH as either carcinogenic to humans or as a potential carcinogen. Formaldehyde is also regulated by OSHA as a human carcinogen.

Signs and Symptoms of Exposure: Potential symptoms of exposure to OSB dusts are similar to those for wood dust. These may include irritation (redness) of the eyes, dermatitis (abnormality of the skin), cough, wheeze and inflammation of the sinus passages, possible epistaxis (nosebleed), and abnormal sensitivity of the respiratory system.

First Aid: Avoid prolonged exposure to dust levels in excess of the published standards. If symptoms of exposure are experienced or accidental over-exposure occurs, move the affected individual to fresh air. If eye or skin irritation is experienced, flush both eyes or affected area with copious amounts of fresh water for at least 15 minutes. If irritation persists, or if foreign matter remains in the eye, seek medical attention.

SECTION VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Spilled: Shovel or sweep up spills and place in container for disposal.

Waste Disposal: This product is not a hazardous waste under federal law.

Note: This product is not regulated by DOT per 49 CFR 172.01.

SECTION VIII - Control Measures

Respiratory Protection: Use a NIOSH-approved dust respirator if ventilation is inadequate.

Ventilation: Provide ventilation adequate to keep airborne concentrations below the exposure limits.

Eye Protection: Wear vented safety goggles.

Protective Clothing: Wear gloves for routine handling.

Work Practices: Good housekeeping practices should be used to minimize dust levels in the air and to reduce the possibility of slipping on dust collected on floor surfaces.

SECTION IX - Additional Information

Disclaimer: This MSDS is intended solely for safety education and not for use in relation to specifications or warranties. The information presented in this MSDS was obtained from usually reliable sources and is provided without any representations or warranties regarding the accuracy or correctness. Since the handling, use, and storage of this product is beyond our control, Louisiana-Pacific assumes no responsibility and disclaims liability for any loss, damage, or expense arising therefrom.

Comments: Louisiana-Pacific has attempted to provide a readable and informative MSDS for use with L-P products. Should you have any comments or suggestions regarding this MSDS, please send them to Louisiana-Pacific Corporation, 111 SW Fifth Avenue, Portland, Oregon 97204-3601, Attn: MSDS Information Coordinator (telephone number (503) 221-0800).